

## Product datasheet for **TA421199**

### CL2A Rabbit Monoclonal Antibody [Clone ID: 1H2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1H2
Applications:	ELISA
Recommended Dilution:	ELISA 1:5000-10000
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Reconstitution Method:	Reconstitute with sterile, low-endotoxin water. See the COA for more details
Concentration:	Lot specific
Purification:	Purified from cell culture supernatant by affinity chromatography
Conjugation:	Unconjugated
Storage:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing)
Stability:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background:	CL2A is a crucial component in antibody-drug conjugate (ADC) therapy, acting as a chemical linker that connects a potent DNA topoisomerase I inhibitor, SN-38, to an antibody. Representing Cysteine-Linked 2-Aminoethyl, CL2A features a complex structure with a PEG8 chain, a triazole ring, a PABC-peptide, and a maleimide group. The maleimide group binds to a cysteine residue on the antibody, facilitating targeted drug delivery. Designed to release SN-38 in acidic cancer cell environments, CL2A induces DNA damage and cell death. This versatile linker is employed in ADCs targeting various antigens like Trop-2 or HER2, tailored to specific cancer types.

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## Product images:

ELISA assay to evaluate Anti-CL2A Antibody  
0.2µg Human IgG-CL2A per well

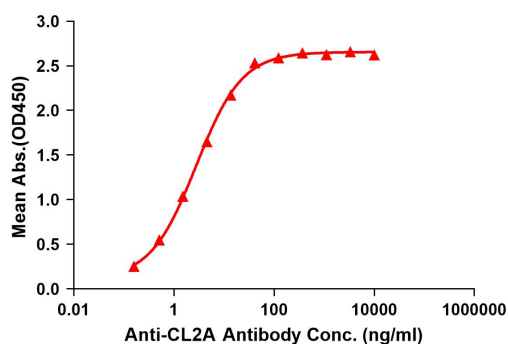


Figure 1. Elisa plates were pre-coated with IgG-CL2A (0.2µg/per well). Serial diluted anti-CL2A monoclonal antibody (TA421199) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CL2A monoclonal antibody binding with IgG-CL2A is 2.801ng/ml.